

§ 158.240 Residue chemistry data requirements.

(a) Table, Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the residue chemistry data requirements and the substances to be tested.

Kind of data required	(b) Notes	General use patterns						Test substance	Data to support EP	Guideline reference No.
		Terrestrial Food crop	Nonfood	Aquatic Food corp	Food Nonfood	Greenhouse	Forestry			
Chemical identity	(1) [R] (2) [R]	[R] [R]	[R]	[R] [R]	[R] [CR]	[R]	[R] [R]	[R] [R]	[R] [R]	TGAI
Directions for use	(13), (14)	[R] [CR]	.....	[R] [CR]	.....	.....	.....	[CR] [CR]	[CR] [CR]	PAIRA
Nature of the residue: Plants	(3), (13), (14)	.....	.....	.....	.....	.....	.....	.....	PAIRA and plant metabolites.	171-3
Livestock .....	.....	.....	.....	.....	.....	.....	.....	.....	PAIRA and plant metabolites.	171-4
Residue analytical method. Magnitude of the residue:	(4), (13), (14), (15)	.....	.....	[R]	.....	.....	.....	[CR]	[CR]	TGA and metabolites.
Crop field trials	(13), (14)	[R] [CR]	.....	[R] [CR]	.....	.....	.....	[CR]	[CR]	TEP
Processed food/feed.	(5), (14)	[CR]	.....	[CR]	.....	.....	.....	[CR]	[CR]	EP
Meat/milk/poultry/eggs.	(6), (14)	[CR]	.....	[CR]	.....	.....	.....	[CR]	[CR]	TGA or plant metabolites.
Potable water	(7)	.....	.....	[R] [R]	.....	.....	.....	.....	.....	171-4
Fish	(8)	.....	.....	[R] [R]	.....	.....	.....	.....	EP	171-4
Ingested crops	(9)	.....	.....	[R] [R]	.....	.....	.....	.....	EP	171-4
Food handling	(10), (14)	[CR]	.....	[R] [CR]	.....	.....	.....	[CR]	[CR]	Residue of concern.
Reduction of residue	(11), (14)	[CR]	.....	[CR]	.....	.....	.....	[CR]	[CR]	Residue of concern.
Proposed tolerance	(12), (14)	[R]	.....	[R]	.....	.....	.....	[CR]	[CR]	Residue of concern.
Reasonable grounds in support of the petition.	(14) [R]	.....	[R]	.....	[R]	.....	.....	[CR]	[CR]	PAIRA
Submittal of analytical reference standards.	(14) [R]	.....	[R]	.....	[R]	.....	.....	[CR]	[CR]	PAIRA

Key: R=Required data; CR=Conditionally required data; TGAI=Technical grade of the active ingredient; PAIRA=Pure active ingredient, radio labeled; EP=End-use product; TEP=Typical end-use product; MP=Manufacturing-use product; []=Brackets (*i.e.*, [R], [CR]) indicate data requirements that apply when an experimental use permit is being sought.

(b) NOTES. The following notes are referenced in column two of the table contained in paragraph (a) of this section.

(1) The same chemical identity data as required under subpart C of this part are required with emphasis on impurities that could constitute a residue problem.

(2) Required information includes crops to be treated, rate of application, number and timing of applications, preharvest intervals, and relevant restrictions.

(3) Data on metabolism in livestock are required when residues occur on a livestock feed or the pesticide is to be applied directly to livestock.

(4) A residue method for enforcement of tolerances is needed whenever a number of exemptions from the requirement of a tolerance will also usually require an analytical method. Analytical methods used to enforce residue limits for emergency exemptions, temporary tolerances and permanent tolerances must be available for use by enforcement agencies and thus may not be claimed as confidential business information.

(5) Data on the nature and level of residue in processed food/feed are required when detectable residues could concentrate on processing and thus require establishment of a food additive tolerance.

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(6) Livestock feeding studies are required whenever a pesticide occurs as a residue in a livestock feed. Use involving direct application to livestock, including poultry, will require animal treatment residue studies.

(7) Data on residues in potable water are required whenever a pesticide is to be applied directly to water, unless it can be determined that the treated water would not be used (eventually) for drinking purpose, by man or animals.

(8) Data on residue in fish are required whenever a pesticide is to be applied directly to water inhabited by fish.

(9) Data on residues in irrigated crops are required when a pesticide is to be applied directly to water that could be used for irrigation or to irrigation facilities such as irrigation ditches.

(10) Data on residues in food/feed in food handling establishments are required whenever a pesticide is to be used in food/feed handling establishments. Disinfectants and sanitizers used

in food or feed handling establishment are exempt from this requirement if their residues are regulated by the Food and Drug Administration at 21 CFR 178.1010.

(11) Reduction of residue data are required when the assumption of tolerance level residues would result in predicted exposure at an unsafe level. Data on the level of residue in food as consumed will be used to obtain a more precise estimate of potential dietary exposure. The Agency recommends that such data be generated to support all pesticides requiring a tolerance

in case new data are revealed which indicates the pesticide is more toxic than initially determined.

(12) The proposed tolerance must reflect the maximum residue likely to occur in crops and meat/milk/poultry eggs.

(13) Residue data for outdoor domestic uses are required if home gardens are to be treated and the home garden use pattern is different from the use pattern on which the tolerance was established.

(14) Required to support registration of an indoor use pesticide if such a use could result in residues in food or feed.

(15) For all food uses, data on whether the FDA/USDA multiresidue methodology would detect and identify the pesticide are required.

[49 FR 42881, Oct. 24, 1984. Redesignated and amended at 53 FR 15993, 15999, May 4, 1988; 58 FR 34203, June 23, 1993]

§ 158.290 Environmental fate data requirements.

(a) *Table.* Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the environmental fate data requirements and the substance to be tested.

Kind of data required	(b) Notes	General use patterns						Test substance	Data to support MP	Data to support EP	Guide-lines reference No.
		Terrestrial Food crop	Terrestrial Nonfood	Aquatic Food crop	Aquatic Nonfood	Greenhouse Food crop	Greenhouse Nonfood				
Degradation studies-lab	[R]	[R]	[R]	[R]	[R]	[R]	[R]	.....	TGAI or PAIRA.	'161-1
Hydrolysis	R	R	R	.....	.....	.....	R	.....	TGAI or PAIRA.	'161-2
Photodegradation:											
In water	(1) CR	.....	.....	.....	.....	.....	CR	.....	TGAI or PAIRA.	'161-3
On soil	(2) CR	.....	.....	.....	.....	.....	.....	.....	TGAI or PAIRA.	'161-4
In air										
Metabolism studies-lab	[R]	[R]	.....	.....	R	R	[R]	.....	TGAI or PAIRA.	'162-1
Aerobic soil	R	.....	R	.....	R	.....	TGAI or PAIRA.	'162-3
Anaerobic aquatic	R	.....	.....	.....	.....	.....	TGAI or PAIRA.	'162-4
Aerobic aquatic	[R]	.....	.....	.....	.....	.....	TGAI or PAIRA.	